RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

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RE EFFORS Edited by the STIC Systems: Branch

erial	Number: $\frac{10/538/343}{\text{Edited by: } \frac{10/2}{\text{Edited by: } \frac{10/2}$	7/
	Realigned nucleic acid/amino acid numbers/text in cases where the sequentext "wrapped" to the next line	ıce
	Corrected the SEQ ID NO. Sequence numbers edited were:	
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ I NO's edited:	D
	Deleted:invalid beginning/end-of-file text; page numbers	
	Inserted mandatory headings/numeric identifiers, specifically:	
	Moved responses to same line as heading/numeric identifier, specifically:	
	Other:	

Revised 09/09/2003

Raw Sequence Listing before editing, for reference only



PCT

RAW SEQUENCE LISTINGPATENT APPLICATION: US/10/538,343

DATE: 06/27/2005

TIME: 14:48:12

Input Set : A:\pto.kd.txt

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3 <110> APPLICANT: Gibson, Keith
             Hansen, Lone
      6 <120> TITLE OF INVENTION: Detergent composition
      8 <130> FILE REFERENCE: 10383.204-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/538,343
C--> 10 <141> CURRENT FILING DATE: 2005-06-10
     10 <160> NUMBER OF SEQ ID NOS: 12
     12 <170> SOFTWARE: PatentIn version 3.3
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    16 <212> TYPE: DNA
    17 <213> ORGANISM: Bacillus sp.
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    27 1
                                                                 15
    29 gac aat gtt aaa cgc cct tct gag gct ggc gca tta caa tta caa gaa
                                                                               96
    30 Asp Asn Val Lys Arg Pro Ser Glu Ala Gly Ala Leu Gln Leu Gln Glu
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    33 gtc gat gga caa atg aca tta gta gat caa cat gga gaa aaa att caa
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    34 Val Asp Gly Gln Met Thr Leu Val Asp Gln His Gly Glu Lys Ile Gln
                                    40
    \cdot37 tta cgt gga atg agt aca cac gga tta caa tgg ttt cct gar atc ttg
                                                                              192
    38 Leu Arg Gly Met Ser Thr His Gly Leu Gln Trp Phe Pro Glu Ile Leu
                                                     60
    41 aat gat aac gca tac aaa gct ctt gct aac gat tgg gaa tca aat atg
                                                                              240
    42 Asn Asp Asn Ala Tyr Lys Ala Leu Ala Asn Asp Trp Glu Ser Asn Met
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    45 att cgt cta gct atg tat gtc ggt gaa aat ggc tat gct tca aat cca
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    46 Ile Arg Leu Ala Met Tyr Val Gly Glu Asn Gly Tyr Ala Ser Asn Pro
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                        85
    49 gag tta att aaa agc aga gtc att aaa gga ata gat ctt gct att gaa
                                                                              336
    50 Glu Leu Ile Lys Ser Arg Val Ile Lys Gly Ile Asp Leu Ala Ile Glu
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    54 Asn Asp Met Tyr Val Ile Val Asp Trp His Val His Ala Pro Gly Asp
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                                    120
    57 cct aga gat ccc gtt tac gct gga gca gaa gat ttc ttt aga gat att
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    58 Pro Arg Asp Pro Val Tyr Ala Gly Ala Glu Asp Phe Phe Arg Asp Ile
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RAW SEQUENCE LISTING DATE: 06/27/2005
PATENT APPLICATION: US/10/538,343 TIME: 14:48:12

Input Set : A:\pto.kd.txt

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	Glu																320
67					165			1	1	170	0-1				175	0_0	
	gaa	ggt	tgg	aat		qta	aaa	gaa	tac		gat	cca	att	qta		atq	576
	Glu																
71		_	_	180			_		185		_			190			
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87					245	- , -				250					255	1	
89	aac	gta	atg	agt	aac	act	cgt	tat	gcg	tta	gaa	aac	gga	gta	gcg	gta	816
	Asn	_	_	_			_		_		_			_	-	_	
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	Phe	Ala		Glu	Trp	Gly	Thr		Gln	Ala	Asn	Gly	_	Gly	Gly	Pro	
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	tat																912
98	Tyr	290	Asp	GIU	Ala	Asp	vai 295	Trp	TTE	GIU	Pne	300	ASI	GIU	ASI	Asn	
	,)1 att		- tac	r act	aac	tac		++=	. acc	r aat	. aaa		· daa	ato	t tot	aat	960
	2 Ile	_											_		-		300
	3 30		1			310					315					320	
	5 gca		aca	a cca	tto	gaq	tta	ggt	aac	tct	aac	gca	acc	aat	ctt		1008
	6 Ala																
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10	9 cca	a ggt	CC	a gat	cat	gtg	tgg	g gca	ı cca	gaa	gag	; tta	a agt	ctt	tcg	gga	1056
	.0 Pro	Gly	Pro	_		Val	Trp	Ala			ı Glü	ı Let	ı Ser			Gly	
11				340					345					350			
	.3 gaa																1104
	.4 Gl	ı Tyı		_	Ala	Arg	Ile	_	_	Val	Asr	тут) Ile	e Asp	
11			355					360					365				1150
	.7 cgt																1152
11	.8 Arg	370		- TAI	TIII	пλр	375		TIL	ASL	, 111E	380	_	, GT	LIII	. пув	
	1 caa			gga	ata	aa+			tet	CCS	a aat			c++	att	gca	1200
	2 Glr						_	_					_			_	1200
	3 385			1		390					395					400	
	5 gtt		aat	: qaa	aac			tto	aaa	att			i tta	qat	. ata		1248
		5.50		ي د د					,	J = 4		, ,,,,,		5	5-0	5 -	

RAW SEQUENCE LISTING DATE: 06/27/2005 PATENT APPLICATION: US/10/538,343 TIME: 14:48:12

Input Set : A:\pto.kd.txt

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137	atg	gat	qtt	att	qtt	qat	qaa	cca	acq	acq	qta	qct	att	qcq	qcq	att	1392
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	Pro																
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	Gly	GIU	ser	580	val	гух	Inr	Ald	585	IIII	тте	GIU	GIU		ASII	GIÀ	
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179	1100	610		111 u	1111	niu	615	9	DCu	nop	1110	620	шу 5		p	ncu .	
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	Val																
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RAW SEQUENCE LISTING DATE: 06/27/2005
PATENT APPLICATION: US/10/538,343 TIME: 14:48:12

Input Set : A:\pto.kd.txt

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	gaa																2112
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199		690					695					700					
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202	Leu	Leu	Arg	Asn	Met	Met	Ile	Ile	Phe	Ala	Asp	Val	Glu	Ser	Asp	Phe	
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213	cct	qtc	gat	qaq	aaq	qaa	qcq	aaa	aaa	qaa	caa	aaa	qaa	qca	qaq	aaa	2304
	Pro																
215			755		•			760	-			•	765			-	
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227 229 230 233 234 237 238 241 242	<400 Ala 1 Asp Val Leu Asn	O> SI Glu Asn Asp Arg 50	EQUENT Gly Val Gly 35 Gly	NCE: Asn Lys 20 Gln Met	2 Thr 5 Arg Met	Arg Pro Thr	Glu Ser Leu His 55	Asp Glu Val 40 Gly	Ala 25 Asp Leu	10 Gly Gln Gln	Ala His Trp	Leu Gly Phe 60	Gln Glu 45 Pro	Leu 30 Lys Glu	15 Gln Ile Ile	Glu Gln Leu	
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227 229 230 233 234 237 238 241 242 245 246 249 250	<400 Ala 1 Asp Val Leu Asn 65 Ile	O> SI Glu Asn Asp Arg 50 Asp	EQUENT Gly Val Gly 35 Gly Asn Leu	NCE: Asn Lys 20 Gln Met Ala	Thr 5 Arg Met Ser Tyr Met 85	Arg Pro Thr Thr Lys 70 Tyr	Glu Ser Leu His 55 Ala Val	Asp Glu Val 40 Gly Leu Gly	Ala 25 Asp Leu Ala Glu	10 Gly Gln Gln Asn Asn 90	Ala His Trp Asp 75 Gly	Leu Gly Phe 60 Trp	Glu 45 Pro Glu Ala	Leu 30 Lys Glu Ser	15 Gln Ile Ile Asn Asn 95	Glu Gln Leu Met 80 Pro	
227 229 230 233 234 237 238 241 242 245 246 249 250	<400 Ala 1 Asp Val Leu Asn 65 Ile Glu	O> SI Glu Asn Asp Arg 50 Asp	EQUENT Gly Val Gly 35 Gly Asn Leu	NCE: Asn Lys 20 Gln Met Ala	Thr 5 Arg Met Ser Tyr Met 85	Arg Pro Thr Thr Lys 70 Tyr	Glu Ser Leu His 55 Ala Val	Asp Glu Val 40 Gly Leu Gly	Ala 25 Asp Leu Ala Glu	10 Gly Gln Gln Asn Asn 90	Ala His Trp Asp 75 Gly	Leu Gly Phe 60 Trp	Glu 45 Pro Glu Ala	Leu 30 Lys Glu Ser	15 Gln Ile Ile Asn Asn 95	Glu Gln Leu Met 80 Pro	
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227 229 230 233 234 237 238 241 242 245 246 250 253 254 257 258 261 262 265	<pre><400 Ala 1 Asp Val Leu Asn 65 Ile Glu Asn Pro</pre>	O> SI Glu Asn Asp Arg 50 Asp Arg Leu Asp	EQUENT Gly Val Gly 35 Gly Asn Leu Ile Met 115 Asp	Lys 20 Gln Met Ala Ala Lys 100 Tyr	Thr 5 Arg Met Ser Tyr Met 85 Ser Val	Arg Pro Thr Thr Lys 70 Tyr Arg Ile Tyr	Glu Ser Leu His 55 Ala Val Val Val Ala 135	Asp Glu Val 40 Gly Leu Gly Ile Asp 120 Gly	Ala 25 Asp Leu Ala Glu Lys 105 Trp	10 Gly Gln Gln Asn 90 Gly His	Ala His Trp Asp 75 Gly Ile Val	Leu Gly Phe 60 Trp Tyr Asp His Phe 140	Glu 45 Pro Glu Ala Leu Ala 125 Phe	Leu 30 Lys Glu Ser Ala 110 Pro	15 Gln Ile Ile Asn Asn 95 Ile Gly Asp	Glu Gln Leu Met 80 Pro Glu Asp	
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RAW SEQUENCE LISTING DATE: 06/27/2005
PATENT APPLICATION: US/10/538,343 TIME: 14:48:12

Input Set : A:\pto.kd.txt

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278			195					200					205			
281 282	Pro	Asn 210	Trp	Ser	Gln	Arg	Pro 215	Asp	Leu	Ala	Ala	Asp 220	Asn	Pro	Ile	Asn
-	Λen		uic	Thr	Mot	Тиг	Thr	Val	uic	Dha	Тиг		Glv	Sor	шic	בות
286	225					230					235					240
289 290	Ala	Ser	Thr	Glu	Ser 245	Tyr	Pro	Pro	Glu	Thr 250	Pro	Asn	Ser	Glu	Arg 255	Gly
293	Asn	Val	Met	Ser	Asn	Thr	Arg	Tyr	Ala	Leu	Glu	Asn	Gly	Val	Ala	Val
294				260				-	265				-	270		
297	Phe	Ala	Thr	Glu	Trp	Gly	Thr	Ser	Gln	Ala	Asn	Gly	Asp	Gly	Gly	Pro
298			275					280					285			
301	Tyr	Phe	Asp	Glu	Ala	Asp	Val	Trp	Ile	Glu	Phe	Leu	Asn	Glu	Asn	Asn
302		290					295					300				
305	Ile	Ser	\mathtt{Trp}	Ala	Asn	Trp	Ser	Leu	Thr	Asn	Lys	Asn	Glu	Val	Ser	Gly
306	305					310					315					320
309	Ala	Phe	Thr	Pro	Phe	Glu	Leu	Gly	Lys	Ser	Asn	Ala	Thr	Asn	Leu	Asp
310					325					330					335	
313	Pro	Gly	Pro	Asp	His	Val	\mathtt{Trp}	Ala	Pro	Glu	Glu	Leu	Ser	Leu	Ser	Gly
314				340					345					350		
	Glu	Tyr		Arg	Ala	Arg	Ile	_	Gly	Val	Asn	\mathtt{Tyr}		Pro	Ile	Asp
318	_		355	_		_		360	_	_		_	365			_
	Arg		Lys	Tyr	Thr	Lys	Val	Leu	Trp	Asp	Phe		Asp	Gly	Thr	Lys
322		370	_,			_	375	_	_	_	_	380		_		
		GIA	Phe	GIY	Val		Ser	Asp	Ser	Pro		Lys	GIu	Leu	He	
	385	•		a 1	,	390	m1	.	.	**- 7	395	a 3	.	•	**- 3	400
	vai	Asp	Asn	GIU		Asn	Thr	ьeu	гÃ2		ser	GIY	Leu	Asp		ser
330	* ~ ~	7 ~~	1707	000	405	~1	7	Dha	Massa	410	7	77.	7	T	415	77-
	ASII	Asp	vai	420	Asp	GIY	Asn	Pne	425	Ala	ASII	Ата	Arg	430	ser	Ala
334	7 cn	C1++	Trn		Tvc	cor	Val	7 00		T 033	C1.,	ת ד ת	C111		T 011	Thr
338	дар	GIY	435	Gry	пур	PET	val	440	116	шец	GIY	AIG	445	цуъ	пеп	1111
	Met	Aen		Tle	Val	Asn	Glu		Thr	Thr	Val	Δla	-	Δla	Δla	Tle
342	1100	450	Vui	110	Vul	лор	455	110	****	1111	vai	460	110	ALU	nια	110
	Pro		Ser	Ser	Lvs	Ser	Gly	Trp	Δla	Asn	Pro		Ara	Δla	Val	Ara
	465		001	001	-,,	470	017				475	014	3		•	480
		Asn	Ala	Glu	Asp		Val	Gln	Gln	Thr		Glv	Lvs	Tvr	Lvs	
350					485					490		4		-4-	495	
	Glv	Leu	Thr	Ile		Glv	Glu	Asp	Ala		Asn	Leu	Lvs	Asn		Ala
354	•			500				•	505				•	510		
357	Phe	His	Glu		Asp	Asn	Asn	Met		Asn	Ile	Ile	Leu	Phe	Val	Gly
358			515		•			520					525			•
	Thr	Asp		Ala	Asp	Val	Ile		Leu	Asp	Asn	Ile		Val	Ile	Gly
362		530			-		535	-		-		540	-			•
	Thr	Glu	Val	Glu	Ile	Pro	Val	Val	His	Asp	Pro	Lys	Gly	Glu	Ala	Val
366						550				-	555	-	-			560
		Pro	Ser	Val	Phe	Glu	Asp	Gly	Thr	Arg	Gln	Gly	Trp	Asp	Trp	Ala
							_	_		_		_	_	-	_	

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/538,343

DATE: 06/27/2005 TIME: 14:48:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06272005\J538343.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12

DATE: 06/27/2005

TIME: 14:48:13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/538,343

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06272005\J538343.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date